



# **Manage NDMP session configurations**

## **ONTAP 9.7 REST API reference**

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# Manage NDMP session configurations

## Protocols NDMP sessions endpoint overview

You can use this API to manage diagnostic information on NDMP sessions belonging to a specific SVM in the case of SVM-scope or to a specific node in the case of node-scope.

### Examples

Retrieves NDMP session details under node-scope:

```
GET "/api/protocols/ndmp/sessions/9b372ce7-3a4b-11e9-a7f8-0050568e3d73/2000"
```

Retrieves NDMP session details under SVM-scope:

```
GET "/api/protocols/ndmp/sessions/13bb2092-458b-11e9-9c06-0050568ea604/2000:4000"
```

Deletes NDMP session details under node-scope:

```
DELETE "/api/protocols/ndmp/sessions/9b372ce7-3a4b-11e9-a7f8-0050568e3d73/2000"
```

Deletes NDMP session details under SVM-scope:

```
DELETE "/api/protocols/ndmp/sessions/13bb2092-458b-11e9-9c06-0050568ea604/2000:4000"
```

## Retrieve NDMP sessions

```
GET /protocols/ndmp/sessions
```

Retrieves a collection of NDMP sessions. In the case of SVM-scope, if this API is executed on a data IP, it displays the list of NDMP sessions under the specified SVM; otherwise it displays the list of NDMP sessions for all the SVMs under the cluster. In the case of node-scope, it displays the list of NDMP sessions for all nodes.

### Related ONTAP commands

- `vserver services ndmp probe`
- `system services ndmp probe`

## Learn more

- [DOC /protocols/ndmp/sessions](#)

## Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.
order_by	array[string]	query	False	Order results by specified fields and optional [asc
desc] direction. Default direction is 'asc' for ascending.	svm.uuid	string	query	False
Filter by svm.uuid	svm.name	string	query	False
Filter by svm.name	node.uuid	string	query	False
Filter by node.uuid	node.name	string	query	False
Filter by node.name	client_port	integer	query	False

<b>Name</b>	<b>Type</b>	<b>In</b>	<b>Required</b>	<b>Description</b>
Filter by client_port	source_address	string	query	False
Filter by source_address	data.reason	string	query	False
Filter by data.reason	data.connection.type	string	query	False
Filter by data.connection.type	data.connection.address	string	query	False
Filter by data.connection.address	data.connection.port	integer	query	False
Filter by data.connection.port	data.state	string	query	False
Filter by data.state	data.bytes_processed	integer	query	False
Filter by data.bytes_processed	data.operation	string	query	False
Filter by data.operation	client_address	string	query	False
Filter by client_address	tape_device	string	query	False
Filter by tape_device	id	string	query	False
Filter by id	data_path	string	query	False
Filter by data_path	tape_mode	string	query	False
Filter by tape_mode	mover.bytes_moved	integer	query	False
Filter by mover.bytes_moved	mover.state	string	query	False
Filter by mover.state	mover.mode	string	query	False
Filter by mover.mode	mover.connection.type	string	query	False

Name	Type	In	Required	Description
Filter by mover.connection.type	mover.connection.address	string	query	False
Filter by mover.connection.address	mover.connection.port	integer	query	False
Filter by mover.connection.port	mover.reason	string	query	False
Filter by mover.reason	backup_engine	string	query	False
Filter by backup_engine	scsi.target_id	integer	query	False
Filter by scsi.target_id	scsi.lun_id	integer	query	False
Filter by scsi.lun_id	scsi.host_adapter	integer	query	False
Filter by scsi.host_adapter	scsi.device_id	string	query	False

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of Records.
records	array[ <a href="#">ndmp_session</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "backup_engine": "string",
      "client_address": "string",
      "data": {
        "bytes_processed": 5000,
        "connection": {
          "address": "string",
          "port": 18600,
          "type": "local"
        },
        "operation": "backup",
        "reason": "aborted",
        "state": "halted"
      },
      "data_path": "/vserver1/vol1",
      "id": "string",
      "mover": {
        "bytes_moved": 645120,
        "connection": {
          "address": "string",
          "port": 18600,
          "type": "local"
        },
        "mode": "read",
        "reason": "end_of_media",
        "state": "connected"
      },
      "node": {
        "_links": {
```

```

    "self": {
      "href": "/api/resourcelink"
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-aelc-123478563412"
  },
  "scsi": {
    "device_id": "string"
  },
  "source_address": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "tape_device": "nrst0a",
  "tape_mode": "write"
}
]
}

```

## Error

Status: Default

### ONTAP Error Response codes

Error code	Description
68812805	Failed to obtain the NDMP mode of the operation.

Name	Type	Description
error	error	



## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

ndmp\_connect

Indicates the NDMP connection attributes.

Name	Type	Description
address	string	Indicates the NDMP data connection address.
port	integer	Indicates the NDMP data connection port.
type	string	The different NDMP connection types.

ndmp\_data

Information about the NDMP data server.

Name	Type	Description
bytes_processed	integer	Indicates the NDMP data bytes processed.
connection	<a href="#">ndmp_connect</a>	Indicates the NDMP connection attributes.
operation	string	Indicates the NDMP data server operation.

Name	Type	Description
reason	string	If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state.
state	string	The various states of the NDMP state machine during a backup or restore workflow.

#### ndmp\_mover

Information about the NDMP mover.

Name	Type	Description
bytes_moved	integer	Indicates the NDMP mover bytes moved.
connection	<a href="#">ndmp_connect</a>	Indicates the NDMP connection attributes.
mode	string	The modes of a NDMP mover instance.
reason	string	If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state.
state	string	The various states of the NDMP state machine during a backup or restore workflow.

#### node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

#### ndmp\_scsi

Information about the NDMP SCSI server.

Name	Type	Description
device_id	string	Indicates the NDMP SCSI device ID.
host_adapter	integer	Indicates the NDMP SCSI host adapter.
lun_id	integer	Indicates the NDMP SCSI LUN ID.
target_id	integer	Indicates the NDMP SCSI target ID.

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

ndmp\_session

Name	Type	Description
_links	<a href="#">_links</a>	
backup_engine	string	Indicates the NDMP backup engine.
client_address	string	Indicates the NDMP client address.
client_port	integer	Indicates the NDMP client port.
data	<a href="#">ndmp_data</a>	Information about the NDMP data server.
data_path	string	Indicates the NDMP backup or restore path.
id	string	NDMP session identifier.
mover	<a href="#">ndmp_mover</a>	Information about the NDMP mover.

Name	Type	Description
node	<a href="#">node</a>	
scsi	<a href="#">ndmp_scsi</a>	Information about the NDMP SCSI server.
source_address	string	Indicates the NDMP local address on which connection was established.
svm	<a href="#">svm</a>	
tape_device	string	Indicates the NDMP tape device.
tape_mode	string	The modes of a NDMP mover instance.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Delete an NDMP session

```
DELETE /protocols/ndmp/sessions/{owner.uid}/{session.id}
```

Deletes a specific NDMP session.

## Related ONTAP commands

- `vserver services ndmp kill`
- `system services ndmp kill`

## Learn more

- [DOC /protocols/ndmp/sessions](#)

## Parameters

Name	Type	In	Required	Description
owner.uuid	string	path	True	
session.id	string	path	True	

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response codes

Error code	Description
68812802	The UUID is not valid.
68812803	Failed to get the SVM name from the specified SVM UUID.
68812804	Failed to get the node name from the specified node UUID.
68812805	Failed to obtain the NDMP mode of operation.
68812806	UUID and Session ID are required.

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

### See Definitions

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

# Retrieve NDMP session details

GET /protocols/ndmp/sessions/{owner.uuid}/{session.id}

Retrieves the details of a specific NDMP session.

## Related ONTAP commands

- `vserver services ndmp probe`
- `system services ndmp probe`

## Learn more

- [DOC /protocols/ndmp/sessions](#)

## Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.
owner.uuid	string	path	True	The NDMP node or SVM UUID based on whether NDMP is operating in node-scope or SVM-scope mode.
session.id	string	path	True	NDMP session identifier

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
backup_engine	string	Indicates the NDMP backup engine.
client_address	string	Indicates the NDMP client address.
client_port	integer	Indicates the NDMP client port.



Name	Type	Description
data	<a href="#">ndmp_data</a>	Information about the NDMP data server.
data_path	string	Indicates the NDMP backup or restore path.
id	string	NDMP session identifier.
mover	<a href="#">ndmp_mover</a>	Information about the NDMP mover.
node	<a href="#">node</a>	
scsi	<a href="#">ndmp_scsi</a>	Information about the NDMP SCSI server.
source_address	string	Indicates the NDMP local address on which connection was established.
svm	<a href="#">svm</a>	
tape_device	string	Indicates the NDMP tape device.
tape_mode	string	The modes of a NDMP mover instance.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "backup_engine": "string",
  "client_address": "string",
  "data": {
    "bytes_processed": 5000,
    "connection": {
      "address": "string",
      "port": 18600,
      "type": "local"
    },
    "operation": "backup",
    "reason": "aborted",
    "state": "halted"
  },
  "data_path": "/vserver1/vol1",
  "id": "string",
  "mover": {
    "bytes_moved": 645120,
    "connection": {
      "address": "string",
      "port": 18600,
      "type": "local"
    },
    "mode": "read",
    "reason": "end_of_media",
    "state": "connected"
  },
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "scsi": {
    "device_id": "string"
  },
}
```

```

"source_address": "string",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"tape_device": "nrst0a",
"tape_mode": "write"
}

```

## Error

Status: Default

### ONTAP Error Response codes

Error code	Description
68812802	The UUID is not valid.

Name	Type	Description
error	error	

### Example error

```

{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}

```

# Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

ndmp\_connect

Indicates the NDMP connection attributes.

Name	Type	Description
address	string	Indicates the NDMP data connection address.
port	integer	Indicates the NDMP data connection port.
type	string	The different NDMP connection types.

ndmp\_data

Information about the NDMP data server.

Name	Type	Description
bytes_processed	integer	Indicates the NDMP data bytes processed.
connection	<a href="#">ndmp_connect</a>	Indicates the NDMP connection attributes.
operation	string	Indicates the NDMP data server operation.
reason	string	If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state.

Name	Type	Description
state	string	The various states of the NDMP state machine during a backup or restore workflow.

#### ndmp\_mover

Information about the NDMP mover.

Name	Type	Description
bytes_moved	integer	Indicates the NDMP mover bytes moved.
connection	<a href="#">ndmp_connect</a>	Indicates the NDMP connection attributes.
mode	string	The modes of a NDMP mover instance.
reason	string	If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state.
state	string	The various states of the NDMP state machine during a backup or restore workflow.

#### node

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	
uuid	string	

#### ndmp\_scsi

Information about the NDMP SCSI server.

Name	Type	Description
device_id	string	Indicates the NDMP SCSI device ID.

Name	Type	Description
host_adapter	integer	Indicates the NDMP SCSI host adapter.
lun_id	integer	Indicates the NDMP SCSI LUN ID.
target_id	integer	Indicates the NDMP SCSI target ID.

#### svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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